

EVALUATION OF ERTS DATA
FOR CERTAIN OCEANOGRAPHIC USES

Bi-Monthly Report: July/August 1973
ERTS Proposal #106
GSFC I.D. # CO 309

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1. Work Summary During Eighth Bimonthly Reporting Period

Little work was performed on the subject contract during the 8th bimonthly reporting period due to vacations by personnel involved.

a. The 1972 algal bloom study in Lake Erie is nearly completed. It is being prepared for publication. An invitation to publish was received by the P.I.

b. An extensive upwelling episode occurred on Lake Michigan during the week of 20 August. The NOAA-2 satellite monitored the upwelling as it evolved for 5 successive days and nights. During the middle of the episode ERTS-1 made a pass down Lake Michigan. Correlation of these two satellite data sources, plus incorporation of some research vessel data obtained by the University of Michigan, should be quite illustrative for our purposes. The upwelling gradient reached values as large as 10°C/10 km along the eastern shore under offshore winds.

2. Expected Accomplishments During Next Reporting Period

a. Work will continue on the circulation atlas of:

- (1) S. Lake Michigan
- (2) S. Lake Huron and Saginaw Bay
- (3) L. St. Clair
- (4) L. Erie
- (5) L. Ontario

b. Further NOAA-2 VHRR digitization and ERTS-1 comparisons.

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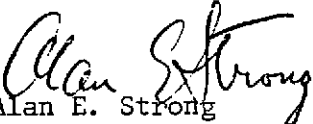
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c. Visits to U. of Michigan and U. of Wisconsin to obtain lake truth data during selected spring and summer periods.

3. Problems Encountered

Problems still prevail in processing NOAA/VHRR data. However, progress is being made slowly.


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Attachment: Picture of the Week Memo (27 Aug. 73)

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